

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently Amended) In a telecommunications system having voice communications subject to noise, a distributed noise suppression system for suppressing said the noise for a given one of said the voice communications, said noise suppression system comprising:

a first noise suppressor, within a first device, giving a first amount of noise suppression level for suppressing noise received by said in the first device prior to transmission of the noise-suppressed signal to a destination device prior to an encoding process, wherein the first noise suppressor is adapted to suppress acoustic background noise, said first noise suppressor including:

means for adjusting the level of noise suppression in direct relation to a measured amplitude of the acoustic background noise; and

means for adjusting the level of noise suppression in direct relation to a measured spectral variation of the acoustic background noise; and

a second noise suppressor, within said the destination device, giving a second amount of noise suppression level for further suppressing the noise-suppressed signal received from said the first device to said destination device, and decoded in a decoding process, wherein the second noise suppressor is adapted to suppress noise due to encoding and decoding distortion and transmission noise, said second noise suppressor including means for adjusting the level of noise suppression in inverse relation to a bit rate utilized in the encoding and decoding processes;

whereby the noise associated with said the given one of said voice communications communication is reduced by an overall amount of noise suppression level.

2-4. (Canceled)

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5. (Original) The noise suppression system according to claim 1, wherein said destination device is selected from the group consisting of:

a loudspeaker, terminal, PC, Internet device, and a transmission system.

6-17. (Canceled)

18. (Original) The noise suppression system according to claim 1, wherein said first and second noise suppressors employ respective algorithms therein tuned to the respective noises encountered.

19. (Original) The noise suppression system according to claim 18, wherein the first and second noise suppression algorithms adapt dynamically to the respective noises encountered.

20. (Currently Amended) In a telecommunications system having voice communications subject to noise, a mobile telephone having suppression means therein for suppressing said the noise for a given one of ~~said the~~ voice communications, said mobile telephone comprising:

a first noise suppressor for suppressing acoustic background noise received by a microphone, said first noise suppressor giving a first amount of noise suppression level ~~received by said mobile telephone prior to encoding and transmission of~~ transmitting the noise-suppressed signal to a destination device, said first noise suppressor including:

means for adjusting the level of noise suppression in direct relation to a measured amplitude of the acoustic background noise; and

means for adjusting the level of noise suppression in direct relation to a measured spectral variation of the acoustic background noise; and

a second noise suppressor giving a second amount of noise suppression level for suppressing a received and decoded noise-suppressed signal received from a transmitting device having a first noise suppressor therein, wherein the second noise suppressor is adapted to suppress noise due to encoding and decoding distortion and

transmission noise, said second noise suppressor including means for adjusting the level of noise suppression in inverse relation to a bit rate utilized in the encoding and decoding processes, whereby the noise associated with said given one of said voice communications the received noise-suppressed signal is reduced by an overall amount of noise suppression level.

21-32. (Canceled)

33. (Currently Amended) In a telecommunications system having voice communications subject to noise, a method for suppressing said the noise for a given one of said the voice communications, said method comprising:

noise suppressing, by a first noise suppressor giving a first amount of noise suppression level, acoustic noise received by a first device prior to ~~transmission of~~ encoding and transmitting the noise-suppressed signal to a destination device, said step of noise suppressing including:

adjusting the level of noise suppression in direct relation to a measured amplitude of the acoustic background noise; and

adjusting the level of noise suppression in direct relation to a measured spectral variation of the acoustic background noise; and

further noise suppressing, by a second noise suppressor giving a second amount of noise suppression level within said the destination device, said the noise-suppressed signal received from said the first device, said step of further noise suppressing including:

suppressing noise due to encoding and decoding distortion and transmission noise; and

adjusting the level of noise suppression in inverse relation to a bit rate utilized in the encoding and decoding processes.

34-46. (Canceled)